

P4X400-AL

P4X400-A

Rev. A+

System Board User's Manual
Carte Mère Manuel Pour Utilisateur
System-Platine Benutzerhandbuch
Manual del Usuario de Placas Base
Руководство Пользователя

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Caution

To avoid damage to the system:

- Use the correct AC input voltage range.

To reduce the risk of electric shock:

- Unplug the power cord before removing the system chassis cover for installation or servicing. After installation or servicing, cover the system chassis before plugging the power cord.

Battery:

- Danger of explosion if battery incorrectly replaced.
- Replace only with the same or equivalent type recommend by the manufacturer.
- Dispose of used batteries according to the battery manufacturer's instructions.

Joystick or MIDI port:

- Do not use any joystick or MIDI device that requires more than 10A current at 5V DC. There is a risk of fire for devices that exceed this limit.

FCC and DOC Statement on Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables must be used in order to comply with the emission limits.

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The user's manual in the provided CD contains detailed information about the system board. If, in some cases, some information doesn't match those shown in this manual, this manual should always be regarded as the most updated version.

Le manuel d'utilisateur dans le CD muni contient renseignement détaillé au sujet de carte de système. Si, en quelque cas, quelque renseignement n'appareille de ce que dit dans ce manuel, ce manuel doit toujours être considéré comme la plus nouvelle version.

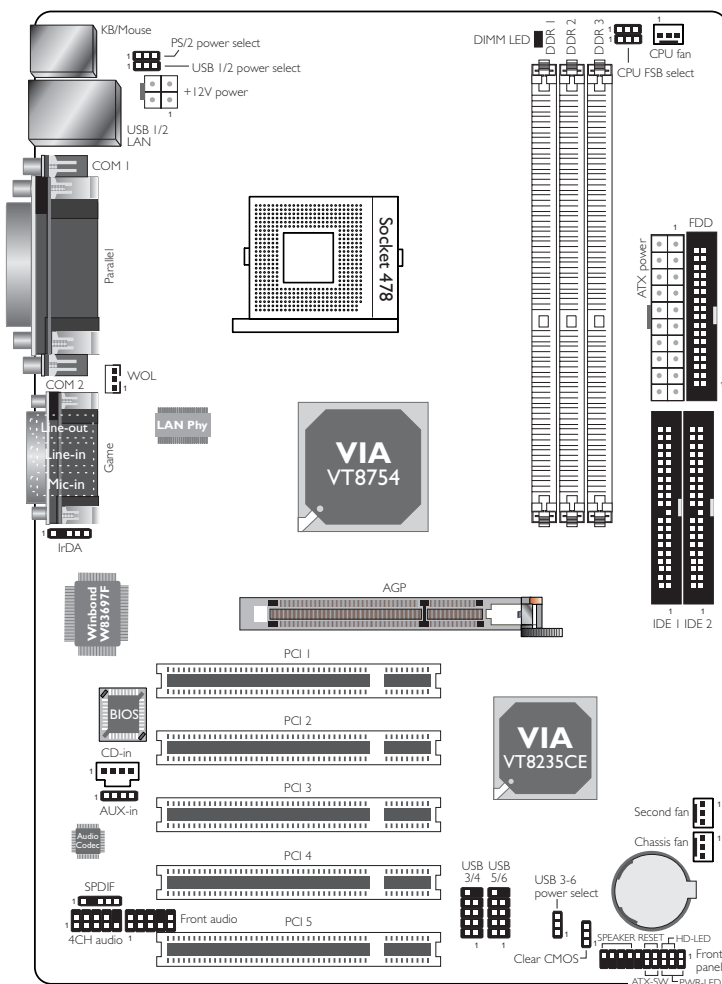
Das Benutzerhandbuch in der angebotenen CD enthält detaillierte Informationen über die Hauptplatine. Wenn in manchen Fällen manche Informationen nicht denjenigen Informationen dargestellt in diesem Handbuch entsprechen, soll dieses Handbuch als die meist aktualisierte Ausgabe gelten.

El uso explicativo contiene información detalle sobre la sistema board en el CD preparativo. Si en algún caso, la información no es igual con el uso explicativo, necesita ver el uso explicativo, es que es más nuevo.

В руководстве пользователя на предоставляемом CD диске содержится подробная информация о материнской плате. Иногда напечатанное руководство может не совпадать руководством на CD, так как последнее наиболее часто обновляется и является самым свежим.

Chapter 1 - Quick Setup Guide

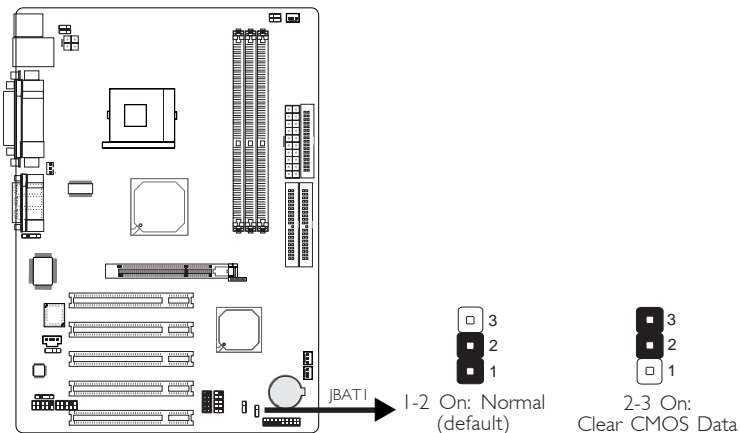
1.1 System Board Layout



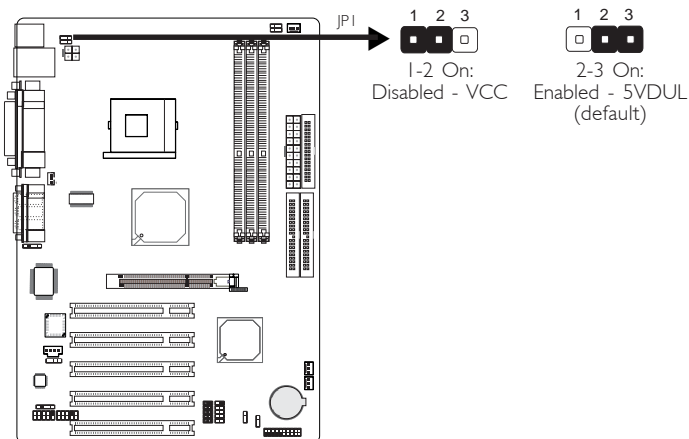
This user's manual is for the P4X400-AL and P4X400-A system boards. The only difference between these boards is the P4X400-AL system board supports onboard LAN. The illustrations on the following pages are based on the system board that supports onboard LAN.

1.2 Jumpers

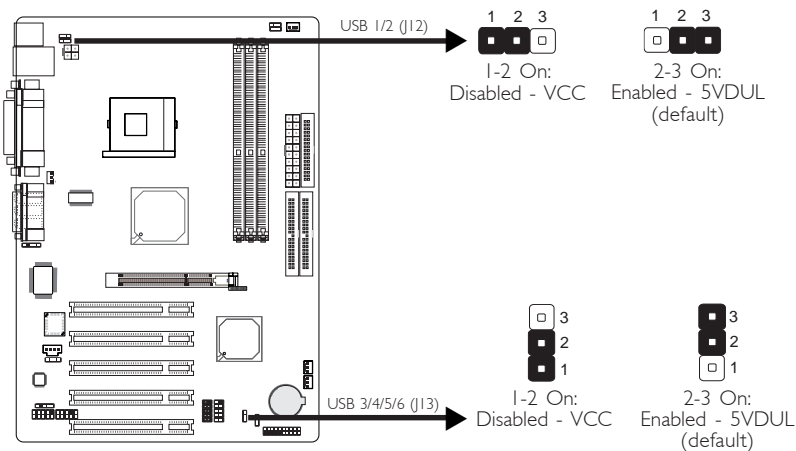
1.2.1 Clear CMOS Data - JBAT1



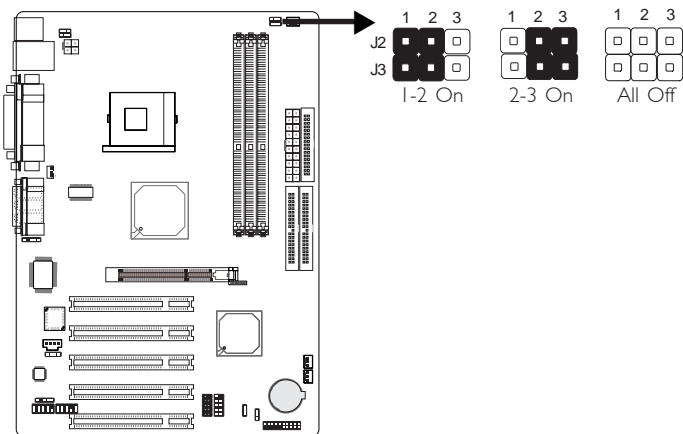
1.2.2 PS/2 Power Select - JPI



1.2.3 USB Power Select - J12 and J13

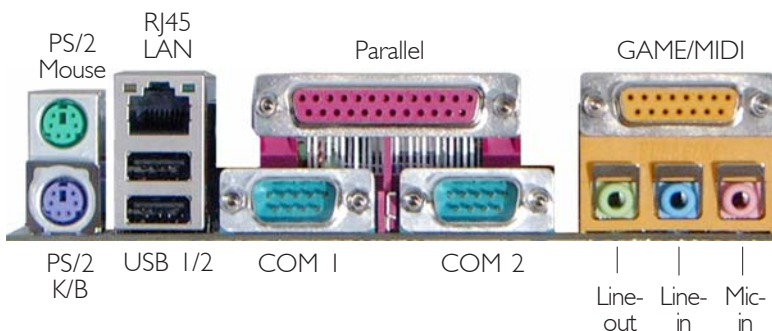


1.2.4 CPU Front Side Bus Select - J2 and J3

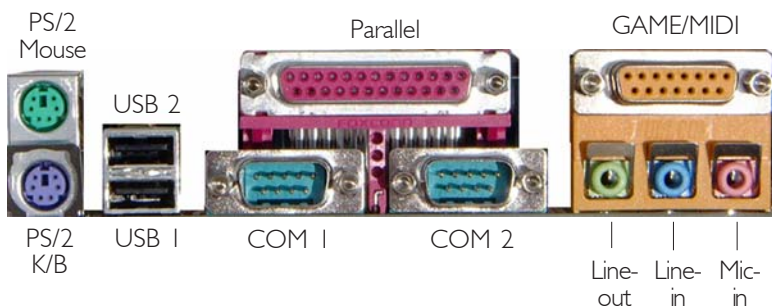


	J2	J3
Auto	1-2 On	1-2 On
100MHz	2-3 On	2-3 On
133MHz	2-3 On	All Off
200MHz	All Off	2-3 On

I.3 Rear Panel I/O Ports



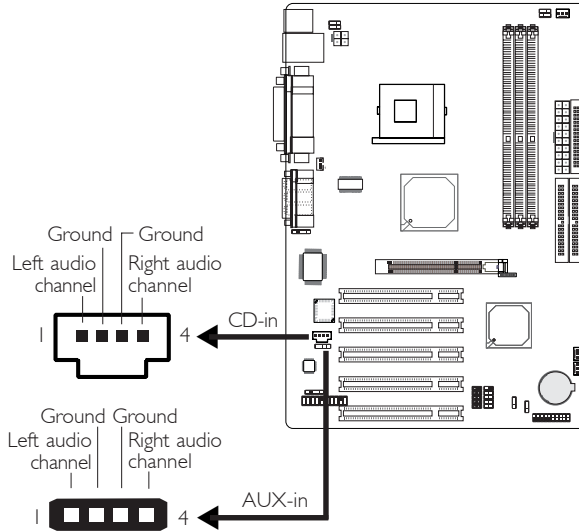
P4X400-AL



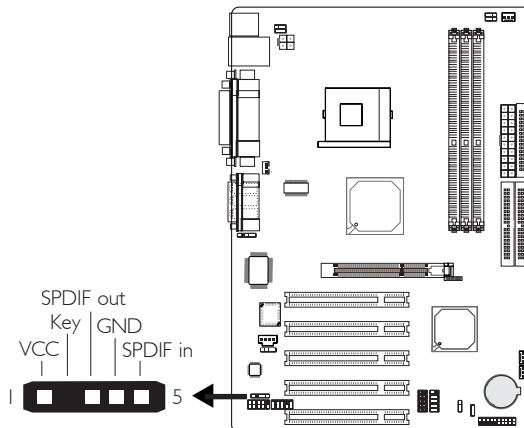
P4X400-A

I.4 I/O Connectors

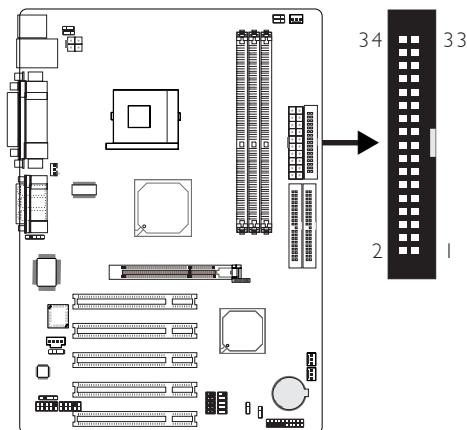
I.4.1 Internal Audio Connectors



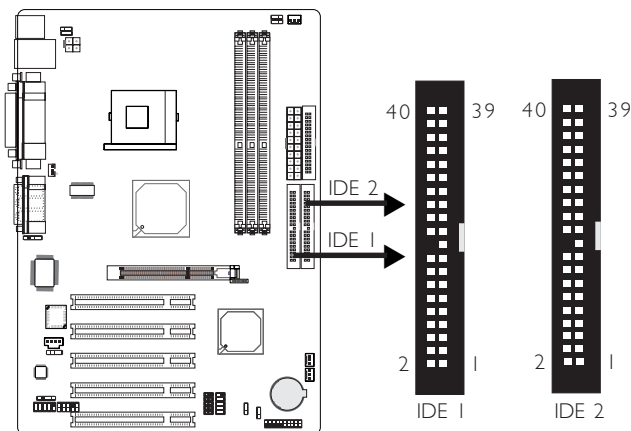
I.4.2 S/PDIF Connector



1.4.3 Floppy Disk Drive Connector



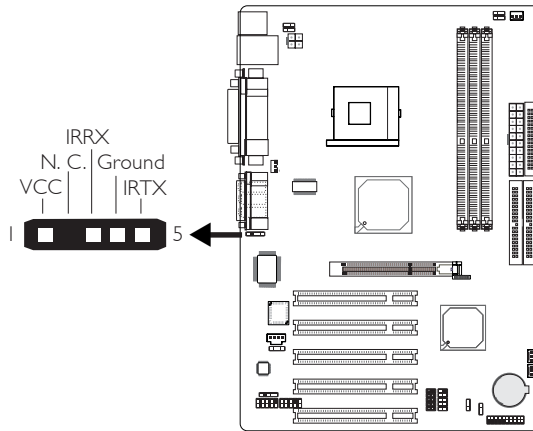
1.4.4 IDE Disk Drive Connector



Important:

If you encounter problems while using an ATAPI CD-ROM drive that is set in Master mode, please set the CD-ROM drive to Slave mode. Some ATAPI CD-ROMs may not be recognized and cannot be used if incorrectly set in Master mode.

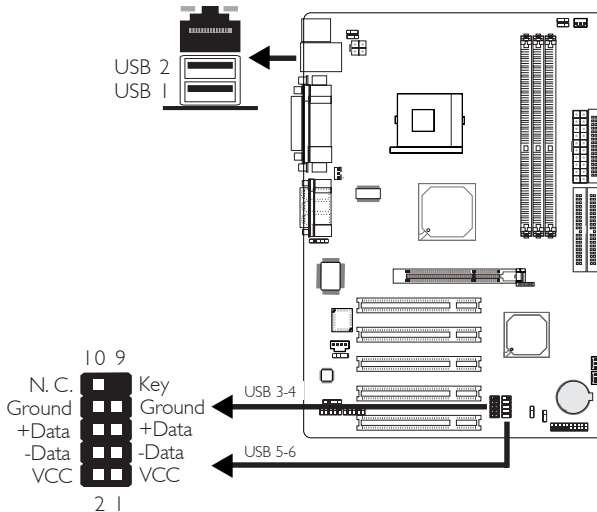
I.4.5 IrDA Connector



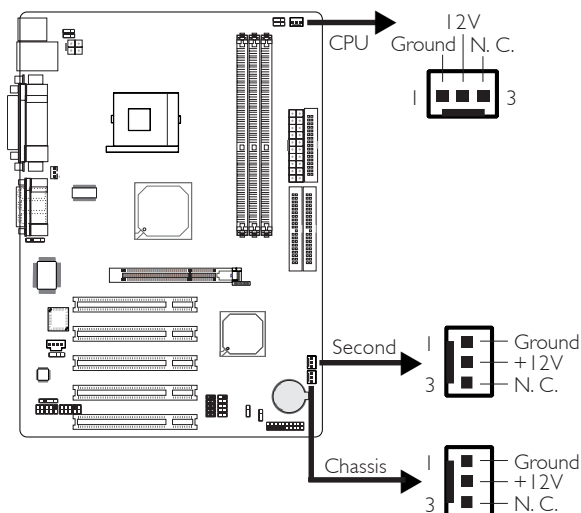
Note:

The sequence of the pin functions on some IrDA cable may be reversed from the pin function defined on the system board. Make sure to connect the cable to the IrDA connector according to their pin functions.

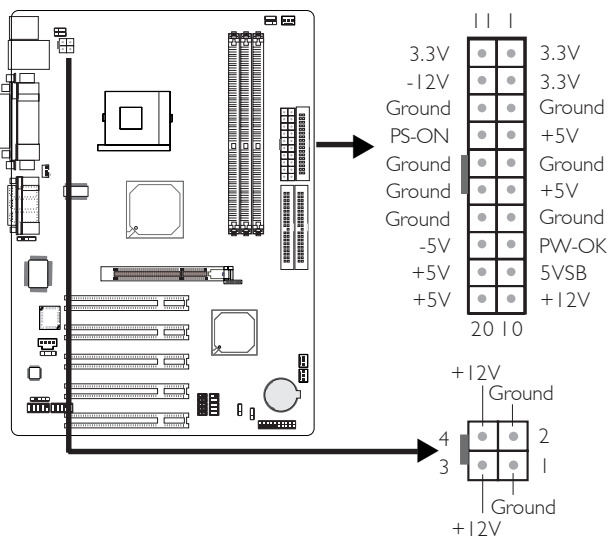
I.4.6 USB Connectors



I.4.7 Fan Connectors



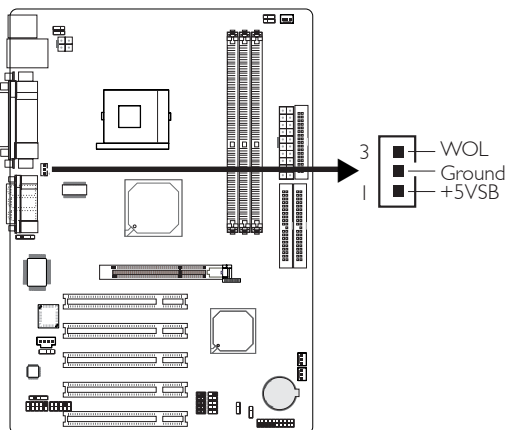
I.4.8 Power Connectors



Important:

The system board requires a minimum of 300W electric current.

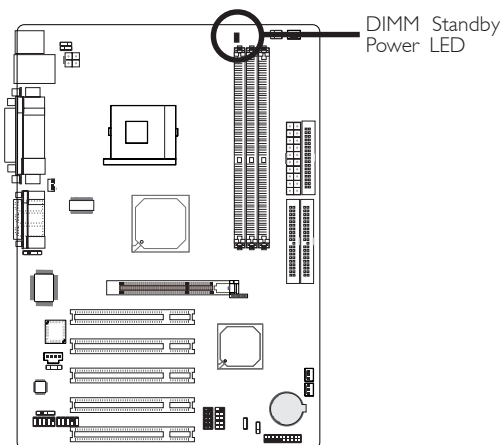
1.4.9 Wake-On-LAN Connector



Important:

The 5VSB power source of your power supply must support $\geq 720\text{mA}$.

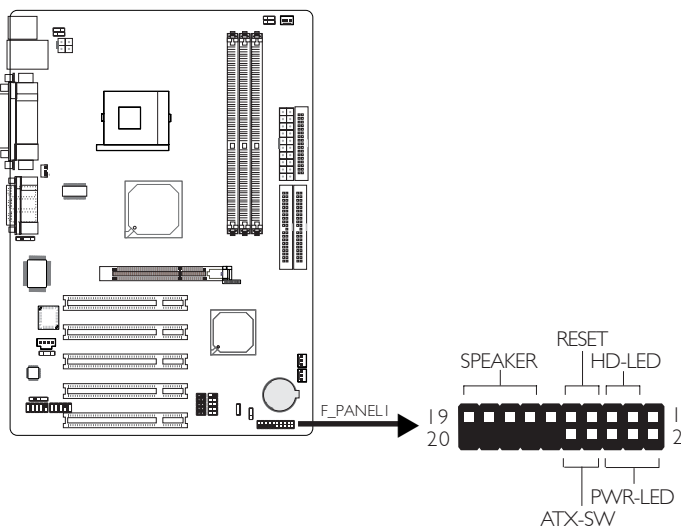
1.4.10 DIMM Standby Power LED



Important:

Lighted LED serves as a reminder that you must power-off the system then turn off the power supply's switch or unplug the power cord prior to installing any memory modules.

1.4.11 Front Panel Connectors



	Pin	Pin Assignment
HD-LED (Primary/Secondary IDE LED)	3 5	HDD LED Power HDD
Reserved	14 16	N. C. N. C.
ATX-SW (ATX power switch)	8 10	PWRBT+ PWRBT-
Reserved	18 20	N. C. N. C.
RESET (Reset switch)	7 9	Ground H/W Reset
SPEAKER (Speaker connector)	13 15 17 19	Speaker Data N. C. Ground Speaker Power
PWR-LED (Power/Standby LED)	2 4 6	LED Power (+) LED Power (+) LED Power (-) or Standby Signal

Chapter 2 - English

2.1 Features and Specifications

Processor

- Intel® Pentium® 4 Processor with Hyper-Threading Technology
 - 533MHz FSB
- Intel® Pentium® 4 processor (478-pin)
 - 533MHz system data bus
 - 400MHz system data bus
- Intel® Celeron® processor (478-pin)
 - 400MHz system data bus

Chipset

- VIA® P4X400 chipset
 - VT8754/VT8235CE

System Memory

- Three 184-pin DDR DIMM sockets
- Supports up to 3GB using PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) or PC3200 (DDR400) unbuffered DDR SDRAM DIMM, 2.5V type

BIOS

- Award BIOS, Windows® 98/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- 2Mbit flash memory

Energy Efficient Design

- ACPI STR (Suspend to RAM) function
- Wake-On-PS/2 Keyboard
- Wake-On-USB Keyboard/Mouse
- Wake-On-Ring (external modem)
- Wake-On-LAN
- RTC timer to power-on the system
- AC power failure recovery

Onboard Audio Features

- Supports Microsoft® DirectSound/DirectSound 3D
- AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
- S/PDIF-in/out compressed digital output
- 6-channel audio output

Onboard LAN Features (P4X400-AL only)

- Integrated LAN controller
- Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible PHY
- 32-bit PCI master interface
- Integrated power management functions
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

PCI Bus Master IDE Controller

- Supports ATA/33, ATA/66, ATA/100 and ATA/133 hard drives
- UDMA Modes 3, 4, 5 and 6 Enhanced IDE (data transfer rate up to 133MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

Processor Socket

- Socket 478

AGP (Accelerated Graphics Port)

- Supports AGP 8x up to 2133MB/sec. and AGP 4x up to 1066MB/sec. bandwidth for 3D graphics applications

Rear Panel I/O Ports (PC 99 color-coded connectors)

- Two USB 2.0/1.1 ports
- One RJ45 LAN port (P4X400-AL only)
- Two DB-9 serial ports
- One DB-25 parallel port
- One mini-DIN-6 PS/2 mouse port
- One mini-DIN-6 PS/2 keyboard port

- One game/MIDI port
- Three audio jacks: line-out, line-in and mic-in

I/O Connectors

- Two connectors for 4 additional external USB 2.0/1.1 ports
- One front audio connector for external line-out and mic-in jacks
- Two internal audio connectors (AUX-in and CD-in)
- One 4-channel audio output connector
- One S/PDIF-in/out connector
- One connector for IrDA interface
- Two IDE connectors
- One floppy drive interface supports up to two 2.88MB floppy drives
- Two ATX power supply connectors
- One Wake-On-LAN connector
- CPU fan and chassis fan connectors

Expansion Slots

- 1 AGP slot
- 5 PCI slots

2.2 Package Checklist

The system board package contains the following items:

- ☒ The system board
- ☒ A user's manual
- ☒ One IDE cable for ATA/33, ATA/66, ATA/100 or ATA/133 IDE drives
- ☒ One 34-pin floppy disk drive cable
- ☒ One "Mainboard Utility" CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

Chapter 3 - Français

3.1 Caractéristiques et Spécifications

Processeur

- Les processeurs Intel® Pentium® 4 avec la Technologie Hyper-Threading - 533MHz FSB
- Processeur Intel® Pentium® 4 (478 broches)
 - 533MHz vitesse du bus
 - 400MHz vitesse du bus
- Processeur Intel® Celeron® (478 broches)
 - 400MHz vitesse du bus

Chipset

- VIA® P4X400 chipset
 - VT8754/VT8235CE

Mémoire Système

- 3 sockets DDR DIMM 184 broches
- Supporte jusqu'à 3Go de mémoire utilisant PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) ou PC3200 (DDR400) DDR SDRAM DIMM tampon, 2.5V

BIOS

- Compatible avec Award BIOS, Windows® 98/2000/ME/XP Plug and Play
- Supporte l'amorçage séquentiel SCSI
- EPROM Flash pour une mise à niveau facile du BIOS
- Supporte la fonction DMI 2.0
- Mémoire Flash 2Mbit

Design à Haut Rendement Énergétique

- ACPI STR (Suspend to RAM) fonction
- Réveil-Sur-PS/2 Clavier (Wake-On-PS/2 Keyboard)
- Eveil Clavier/Souris USB (Wake-On-USB Keyboard/Mouse)
- Eveil Sonnerie (Wake-On-Ring)
- Réveil Par Le Réseau (Wake-On-LAN)

- Minuterie RTC pour allumer le système
- Récupération après Défaillance d'Alimentation CA

Caractéristiques Audio sur Carte

- Supporte DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 supporté avec full duplex, convertisseur de vitesse d'échantillonnage indépendant pour enregistrement audio et lecture.
- Interface entrée/sortie S/PDIF
- Sortie audio 6-canaux

Fonctionnalités Onboard LAN (P4X400-AL seulement)

- Utilise le contrôleur Integrated LAN
- IEEE 802.3, 10BASE-T et 100BASE-TX intégrés compatibles PHY
- Interface maître PCI 32 bits
- Fonctions de gestion d'alimentation intégrées
- Support Full duplex à 10 et 100 Mbps
- Supporte l'auto négociation IEEE 802.3u
- Support câble pour la gestion

Contrôleur IDE de BUS Maître PCI

- Supporte des disques durs ATA/33, ATA/66, ATA/100 et ATA/133
- IDE Améliorés Mode 3, 4, 5 et 6 UDMA (vitesse de transfert de données allant jusqu'à 133Mo/sec.)
- La gestion de Bus réduit l'utilisation du CPU pendant les transferts sur disque
- Supporte les CD-ROM ATAPI, LS-120 et ZIP

Socket Processeur

- Socket 478

AGP (Accelerated Graphics Port)

- Supporte 8x AGP avec une bande passante allant jusqu'à 2133Mo/sec et 4x AGP avec une bande passante allant jusqu'à 1066Mo/sec pour les applications graphiques 3D

Le Panneau des Ports Entrée/Sortie en Arrière

- 2 ports USB 2.0/1.1
- 1 port RJ45 LAN (P4X400-AL seulement)
- 2 ports de DB-9 série
- 1 port parallèle DB-25
- 1 port souris PS/2 mini-DIN-6
- 1 port clavier PS/2 mini-DIN-6
- 1 pour jeu/MIDI
- 3 prises audio: ligne de sortie (line-out), ligne d'entrée (line-in) et entrée micro (mic-in)

Connecteurs Entrée/Sortie

- 2 connecteurs pour 4 ports USB2.0/1.1 supplémentaires
- 1 connecteur audio de l'avant pour la sortie ligne et l'entrée micro
- 2 connecteurs audio internes (CD-in et AUX-in)
- 1 connecteur 4-channel
- 1 connecteur entrée/sortie S/PDIF
- 1 connecteur pour interface IrDA
- 2 connecteurs IDE
- 1 connecteur de lecteur de disquettes supportant jusqu'à deux lecteurs de disquettes de 2.88Mo
- 2 connecteurs d'alimentation ATX
- 1 connecteur Wake-On-LAN
- Connecteur de ventilateur CPU et connecteur de ventilateur châssis

Logements d'Extension

- 1 slot AGP
- 5 slots PCI

3.2 Liste de Vérification de l’Emballage

L’emballage de la carte système contient les éléments suivants:

- ☒ I carte système
- ☒ I manuel utilisateur
- ☒ I câble IDE pour les lecteurs IDE ATA/33, ATA/66, ATA/100 ou ATA/133
- ☒ I câble 34 broches pour lecteur de disquette
- ☒ I CD “Mainboard Utility”

Si l’un de ces éléments n’était pas dans l’emballage ou s’il était endommagé, veuillez contacter votre revendeur ou votre représentant.

Chapter 4 - Deutsch

4.1 Leistungsmerkmale und Technische Daten

Prozessor

- Intel® Pentium® 4 Prozessor mit Hyper-Threading Technologie
 - 533MHz FSB
- Intel® Pentium® 4 Prozessor (478-polige)
 - 533MHz Systemdatenbus
 - 400MHz Systemdatenbus
- Intel® Celeron® Prozessor (478-polige)
 - 400MHz Systemdatenbus

Chipset

- VIA® P4X400 chipset
 - VT8754/VT8235CE

Systemspeicher

- 3 DDR-DIMM-Fassungen mit 184poligem Anschlußstecker
- Unterstützt einen Speicher von bis zu 3GB anwendung des PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) oder PC3200 (DDR400) Pufferspeicher-DDR SDRAM DIMM, 2.5V

BIOS

- Kompatibilität mit Award BIOS, Windows® 98/2000/ME/XP Plug and Play
- Unterstützung des sequentiellen SCSI-Ladens
- Flash EPROM für ein einfaches Aktualisieren des BIOS
- Unterstützung der DMI-2.0-Funktion
- Flash-Speicher (2Mbit)

Energomisches Design

- ACPI STR (Suspend to RAM) funktion
- Wecken bei Betätigung der PS/2 Tastatur (Wake-On- PS/2 Keyboard)
- Wecken bei USB-Tastatur/Maus (Wake-On-USB Keyboard/ Mouse)

- Wecken bei Klingeln (Wake-On-Ring)
- Wecken des Systems durch das Netzwerk (Wake-On-LAN)
- RTC-Taktgeber zum Einschalten des Systems
- Wiederherstellung der Wechselstromversorgung nach einem Ausfall

Audiomerkmale auf Platine

- Unterstützung des Microsoft® DirectSound / DirectSound 3D
- AC'97 mit Unterstützung des Vollduplexbetriebs, unabhängigem Abtastratenumwandler für die Aufnahme und Wiedergabe
- S/PDIF-In/Aus-Schnittstelle
- 6-Kanal-Audioausgang

Merkmale des LANs auf Platine (Nur für P4X400-AL)

- Benutzung des Integrated LAN
- Integrierter IEEE 802.3, 10BASE-T und 100BASE-TX kompatibler PHY
- 32-Bit-PCI-Master-Schnittstelle
- Integrierte Power-Management-Funktionen
- Vollduplex-Unterstützung bei 10 und 100 Mbps
- Unterstützung der IEEE-802.3u-Auto-Negotiation
- Unterstützung des Leiters für das Management

PCI-Bus-Master-IDE-Controller

- Unterstützung der Festplatten ATA/33, ATA/66, ATA/100 und ATA/133
- Erweitertes IDE des PIO-Modus 3, 4, 5 und 6 (Datenübertragungsgeschwindigkeit von bis zu 133MB/Sek.).
- Verminderte CPU-Benutzung während Diskettenübertragung dank dem Bus-Master.
- Unterstützung des ATAPI CD-ROMs, LS-120 und ZIP.

Prozessor Socket

- Buchse 478

AGP (Accelerated Graphics Port)

- Für die 3D-Grafikanwendungen unterstützt die universelle AGP-Steckfassung einen AGP 8x mit einer Bandbreite von bis zu 2133MB/Sek. sowie einen AGP 4x mit einer Bandbreite von bis zu 1066MB/Sek.

Ein-/Ausgabe-Porte an der Rückwand

- 2 USB 2.0/1.1-Anschlüsse
- 1 RJ45 LAN-Anschlüsse (Nur für P4X400-AL)
- 2 serieller DB-9-Anschlüsse
- 1 DB-25-Parallelanschluß
- 1 Mini-DIN-6-Anschluß für eine PS/2-Maus
- 1 Mini-DIN-6-Anschluß für eine PS/2-Tastatur
- 1 game/MIDI Port
- 3 Audio-Anschlußbuchsen: Ausgangsleitung, Eingangsleitung und Mikrofon-Eingang

Ein-/Ausgabe-Steckverbinder

- 2 Anschlußfassung für 4 zusätzliche externe USB2.0/1.1-Anschlüsse
- 1 Frontaudioanschluß für die externe Ausgangsleitung und den Mikrofoneingang
- 2 interne Audioanschlüsse (AUX-in und CD-in)
- 1 4-channel Anschluß
- 1 S/PDIF-in/Aus-Steckverbinder
- 1 Anschluß für die IrDA-Schnittstelle
- 2 IDE-Anschlüsse
- Unterstützung von bis zu zwei 2,88MB-Floppylaufwerken durch einen Floppylaufwerksanschluß
- 2 Anschlußstecker für das ATX-Netzgerät
- 1 Anschlußstecker für Wecken durch LAN
- CPU- und Chassis-ventilator-Anschlüsse.

Erweiterungssteckfassungen

- 1 AGP-Einbauplätzen
- 5 PCI-Einbauplätzen

4.2 Verpackungsliste

In der Verpackung der Systemplatine sind folgende Artikel enthalten:

- ☒ 1 Systemplatine
- ☒ 1 Benutzerhandbuch
- ☒ 1 IDE-Kabel für ATA/33-IDE-Laufwerke, ATA/66-IDE-Laufwerke, ATA/100-IDE-Laufwerke oder ATA/133-IDE-Laufwerke
- ☒ 1 Floppylaufwerkskabel mit 34poligen Anschlußstecker
- ☒ 1 CD mit "Mainboard Utility"

Fehlt einer dieser Artikel oder weist einer dieser Artikel Beschädigungen auf, wenden Sie sich an Ihren Händler oder Vertreter:

Chapter 5 - Español

5.1 Características y Especificaciones

Procesador

- Procesador Pentium® 4 de Intel® con la Tecnología Hyper-Enhebramiento - 533MHz FSB
- Procesador Intel® Pentium® 4 (478-terminales)
 - 533MHz Canal de datos del sistema
 - 400MHz Canal de datos del sistema
- Procesador Intel® Celeron® (478-terminales)
 - 400MHz Canal de datos del sistemaSB

Chipset

- VIA® P4X400 chipset
 - VT8754/VT8235CE

Memoria de Sistema

- 3 enchufes de 184-terminales DDR SDRAM DIMM
- Apoya un máximo de 3GB memoria de PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) o PC3200 (DDR400) DDR SDRAM DIMM de 2.5V sin buffer.

BIOS

- Award BIOS, Windows® 98/2000/ME/XP Enchufar y Usar compatible
- Soporta el inicio de secuencia de SCSI
- Parpadea EPROM para fácil actualización de BIOS
- Soporta la función de DMI 2.0
- Memoria Instante (2Mbitios)

Diseño Energía Eficiente

- ACPI STR (Suspend to RAM) función
- PS/2 Teclado de Wake-On (Wake-On-PS/2 Keyboard)
- Teclado/Ratón de Wake-On-USB (Wake-On-USB Keyboard/Mouse)
- Wake-On-Ring (external modem)

- Wake-On-LAN
- Temporizador de RTC para encender el sistema
- Recuperación de Fracaso de Energía AC

Características de Audio En Tablero

- Soporta DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 soportado con convertidor de tasa de muestra independiente, doble completo para la grabación y playback del audio
- Interfaz de S/PDIF-in/out
- Output auricular de 6-canal

Características de LAN Interno (P4X400-AL sólo)

- Integrated LAN de controlador
- IEEE 802.3, 10BASE-T y 100BASE-TX integrado de PHY compatible
- Interfaz maestro de 32-bit PCI
- Funciones de administración de energía integrado
- Soporte dúplex completo en ambos 10 y 100 Mbps
- Soporta auto negociación de IEEE 802.3u
- Soporta alambre para la administración

Controlador de IDE Maestro de Bus PCI

- Soporta las unidades duras de ATA/33, ATA/66, ATA/100 y ATA/133
- UDMA Modo 3, 4, 5, y 6 Realzada IDE (tasa de transferencia de dato hasta 133MB/seg.)
- Controlación de Bus reduce la utilización de CPU durante la transferencia de disco
- Soporta ATAPI CD-ROM, LS-120 y ZIP

Procesador Zócalo

- Zócalo 478

AGP (Accelerated Graphics Port)

- Soporta AGP 8x con 2133MB/sec. y AGP 4x con 1066MB/sec. para las tarjetas 3D

Panel de reverso de conectores de entrada - Salida

- 2 puertos de USB 2.0/I.I
- 1 puerto de RJ45 LAN (P4X400-AL sólo)
- 2 puertos de serie DB-9
- 1 puerto paralelo de DB-25
- 1 puerto de ratón PS/2 mini-DIN-6
- 1 puerto de teclado mini-DIN-6 PS/2
- 1 puerto de juego/MIDI
- 3 enchufes de audio: línea de salida, línea de entrada y mic de entrada

I/O Conectores

- 2 conectores para 4 puertos de USB 2.0/I.I externo adicional
- 1 conector audio delantero para la salida extrema de línea y el micro
- 2 conectores de audio interno (AUX-in y CD-in)
- 1 conector de 4-channel
- 1 conector de S/PDIF-in/out
- 1 conector para interfaz de IrDA
- 2 conectores de IDE
- 1 conector de disquete soporta hasta dos disquetes de 2.88MB
- 2 conectores de fuente de alimentación de ATX
- 1 conector de Wake-On-LAN
- 2 conectores de abanicos de CPU y chasis

Ranuras de Expansión

- 1 slot AGP
- 5 slots PCI

5.2 Lista de Chequeo del Paquete

El paquete del tablero de sistema contiene los siguientes artículos:

- ☒ 1 tablero de sistema
- ☒ 1 manual de usuario
- ☒ 1 cable de IDE para las unidades de ATA/33, ATA/66, ATA/100
o ATA/133 IDE
- ☒ 1 cable de unidad de disquete de 34-terminales
- ☒ 1 CD de "Mainboard Utility"

Si cualquiera de estos artículos están perdidos o dañados, favor de ponerse en contacto con su tratante o representantes de venta para la asistencia.

Глава 6 - Русский язык

6.1 Характеристики и свойства

Процессор

- Процессор Intel® Pentium® 4 с технологией Hyper-Threading - 533МГц FSB
- Процессор Intel® Pentium® 4 (478-pin)
 - 533МГц системная шина
 - 400МГц системная шина
- Процессор Intel® Celeron® (478-pin)
 - 400MHz системная шина

Чипсет

- Чипсет VIA® P4X400
 - VT8754/VT8235CE

Оперативная Память

- Два DIMM гнезда 3 184-pin DDR SDRAM
- Поддержка до 3ГБ оперативной, 2.5V небуффер, PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) или PC3200 (DDR400) DDR SDRAM DIMM

BIOS

- Award BIOS, Windows® 98/2000/ME/XP Plug and Play
- Поддерживает загрузку SCSI
- Flash EPROM для обновления BIOS
- Поддерживает функцию DMI 2.0
- 2Mbit Flash Память

Энергомичный Дизайн

- ACPI STR (Suspend to RAM)
- Активизация На Движение Мыши
- Активизация На Нажатие Кнопки USB Клавиатуры
- Активизация На Входящий Звонок
- Активизация На Сетевое Событие
- RTC Таймер для Включения Системы
- Скачки Напряжения

Встроенный Звук

- Поддерживает Microsoft® DirectSound / DirectSound 3D
- AC'97 поддерживается с полнодуплексным, независимым конвертором частоты для записи и проигрывания звука
- интерфейса S/PDIF-in и S/PDIF-out
- 6-и канальный звуковой выход

Встроенные сетевые функции (только P4X400-AL)

- Встроенный сетевой контроллер
- Встроенный интерфейс IEEE 802.3, 10BASE-T и 100BASE-TX совместимый PHY
- 32-битный интерфейс мастер PCI
- Встроенные функции управления питанием
- Полнодуплексная поддержка на 10 и 100 Mbps
- Поддерживает IEEE 802.3u auto-negotiation
- Работа через шнур управления

Контроллер PCI IDE Мастер Шины

- Поддерживает жесткие диски ATA/33, ATA/66, ATA/100 и ATA/133
- UDMA Mode 3, 4, 5 и 6 Расширенный IDE (скорость передачи данных до 133МБ/сек.)
- Мастеринг шины снижает нагрузку на центральный процессор
- Поддерживает ATAPI CD-ROM, LS-120 и ZIP

Чипсет Socket

- Socket 478

AGP (Accelerated Graphics Port)

- Универсальный AGP слот поддерживает AGP 8x со скоростью передачи данных 2133МБ/сек и AGP 4x с 1066МБ/сек в 3D графических приложениях

Порты Ввода/Вывода (I/O) задней панели

- 2 USB 2.0/1.1 порта
- 1 RJ45 LAN порт (только P4X400-AL)
- 2 внешнего DB-9 порта
- 1 DB-25 параллельный порт
- 1 PS/2 порт для мыши и 1 PS/2 порт для клавиатуры
- 1 игрового/MIDI порта
- 3 гнезда для звука: выход, вход и микрофон

Разъемы Ввода/Вывода

- 2 разъем для 4-х дополнительных внешних USB 2.0/1.1 портов
- 1 передний аудио разъем для внешнего линейного выхода и микрофона
- 2 внутренних звуковых разъема (CD-in и AUX-in)
- 1 разъем 4-channel и 1 разъем S/PDIF-in/out
- 1 разъем для интерфейса IrDA
- 2 IDE разъема и 1 FDD разъем
- 2 разъема питания ATX
- 1 Wake-On-LAN (Активизация на сетевое событие)
- Разъемы для вентилятора процессора и системного блока

Слоты

- 1 AGP слотов и 5 PCI слотов

6.2 Комплектация

Комплектация поставки материнской платы:

- ☒ Материнская плата
- ☒ Руководство пользователя
- ☒ Один IDE шлейф для жестких дисков ATA/33, ATA/66, ATA/100 или ATA/133
- ☒ Один 34-pin шлейф для дисководов
- ☒ Один CD с "Mainboard Utility"

Если в комплекте из этого чего-то не хватает или что-то испорчено, пожалуйста, свяжитесь со своим дилером или продавцом.